

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,004,240 B1
APPLICATION NO. : 10/602022
DATED : February 28, 2006
INVENTOR(S) : Edward J. Kroliczek et al.

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page showing an illustrative figure, should be deleted and substitute therefore the attached title page.

On the title page:

In ITEM (56) REFERENCES CITED,		Other Publications
PAGE 2,	1 st column,	In the 5 th entry, change "Bugby et al, Proceedings of teh" to --Bugby et al, Proceedings of the--
PAGE 2,	1 st column,	In the 6 th entry, change "Integration,"D." to --Integration," D.--
PAGE 2,	1 st column,	In the 6 th entry, change "International conference; 31st," to --International conference; 31st--
PAGE 2,	1 st column,	change "Pumped Loop,"Triem" to --Pumped Loop," Triem--
PAGE 2,	2 nd column,	In the 10 th entry, change ""Development of Advenced" to --"Development of Advanced"--
PAGE2,	2 nd column,	In the 3 rd full entry of the 2 nd column, change "Acondicionado Y Refreigeracion" to --Acondicionado Y Refrigeracion--
PAGE 2,	2 nd column,	In the 4 th full entry, change "Domestic Refrigerator,"Oguz, Emre" to --Domestic Refrigerator," Oguz, Emre--
PAGE 2,	2 nd column,	In the 6 th full entry, change "Macines for Domestic Refrigeration,"Berchowitz" to --Machines for Domestic Refrigeration," Berchowitz--
PAGE 2,	2 nd column,	In the 7 th full entry, change "Symposium by TTH Reserach" to --Symposium by TTH Research--
PAGE 2,	2 nd column,	In the 11 th full entry, change ""Multiple Evaporator Loop Heat Pipe,"James" to --"Multiple Evaporator Loop Heat Pipe," James--
PAGE 2,	2 nd column,	In the 14 th full entry, change ""Recent Advences in Capillary Pumped" to --"Recent Advances in Capillary Pumped--

Signed and Sealed this

Tenth Day of August, 2010



David J. Kappos
Director of the United States Patent and Trademark Office

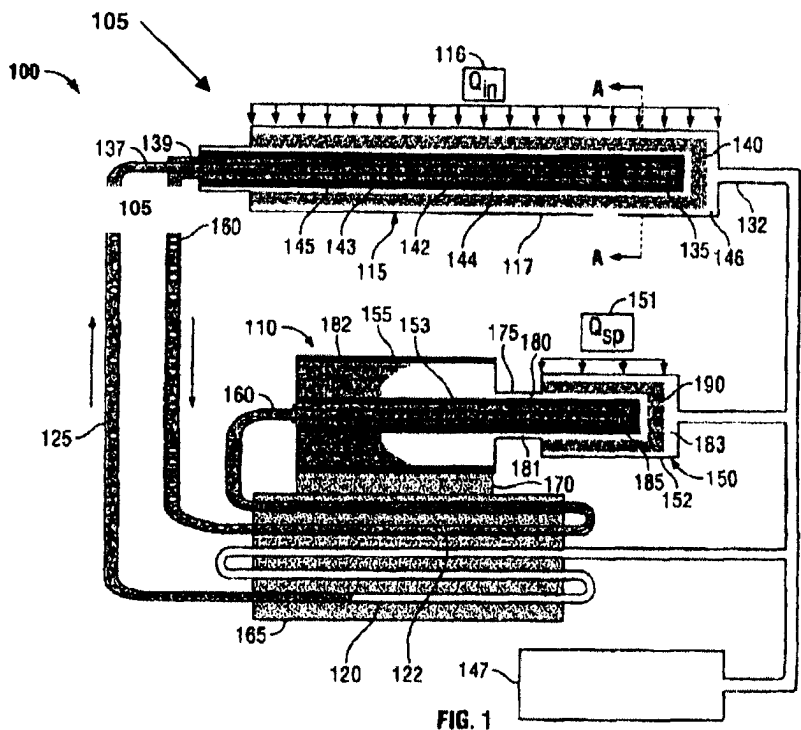
On the title page:

In ITEM (56) REFERENCES CITED, PAGE 2,	2 nd column, Other Publications (continued)
PAGE 3,	1 st column, In the 15 th full entry, change ""Recent Advnces in Stirling"" to --"Recent Advances in Stirling--
PAGE 3,	1 st column, In the 1 st entry, change ""Testing of a Caprillary Pumped"" to --"Testing of a Capillary Pumped"--
PAGE 3,	1 st column, In the 3 rd entry, change ""The Hybrid Capillary Pumped Loop,""J."" to --"The Hybrid Capillary Pumped Loop,""J.--
PAGE 3,	1 st column, In the 3 rd entry, change "submitted to SAE 18 th Intersociety" to --submitted to SAE 18 th Intersociety--
PAGE 3,	2 nd column, In the 2 nd entry, change "Refrigeration,"Kim,"" to --Refrigeration," Kim,"--
PAGE 3,	2 nd column, In the 2 nd entry, change "Congerence 32" to --Conference 32--

In the drawings:

In FIG. 1, insert --105-- and an associated lead line indicating an appropriate location of the heat transfer system

The sheet of drawings consisting of figure 1 should be deleted and substitute therefore the attached figure 1.



CERTIFICATE OF CORRECTION (continued)

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COLUMN 2, LINE 28,	change "surround" to --surrounding--
COLUMN 6, LINE 44,	change "1, 15" to --115--
COLUMN 7, LINE 48,	change "outlet port 139" to --outlet 139--
COLUMN 7, LINE 52,	change "outlet port 139" to --outlet 139--
COLUMN 7, LINE 53,	change "outlet port 139" to --outlet 139--
COLUMN 8, LINE 8,	change "temperature 410" to --time 410--
COLUMN 8, LINE 60,	after "liquid" and before "flows" insert --522--
COLUMN 8, LINE 61,	after "fluid" insert--522--
COLUMN 8, LINE 63,	after "fluid" insert --522--
COLUMN 8, LINE 65,	after "fluid" insert --522--
COLUMN 9, LINE 65,	change "radiator" to --heat sink--
COLUMN 10, LINE 58,	change "of a" to --over a--
COLUMN 11, LINE 7,	after "1020" and before "within" insert --(not shown)--
COLUMN 11, LINE 9,	after "1025" and before "within" insert --(not shown)--
COLUMN 11, LINE 20,	at the end of the line, change "sensor" to --component--
CLAIM 18, COLUMN 12, LINE 52,	change "surround" to --surrounding--

(12) **United States Patent**
Kroliczek et al.

(10) **Patent No.:** **US 7,004,240 B1**
(45) **Date of Patent:** **Feb. 28, 2006**

(54) **HEAT TRANSPORT SYSTEM**

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(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 269 days.

(21) **Appl. No.:** **10/602,022**

(22) **Filed:** **Jun. 24, 2003**

Related U.S. Application Data

(60) **Provisional application No.** 60/391,006, filed on Jun.
24, 2002.

(51) **Int. Cl.**
F28D 15/00 (2006.01)

(52) **U.S. Cl.** **165/104.26; 165/41; 165/42;**
165/104.21; 165/104.33; 165/104.11; 165/104.19

(58) **Field of Classification Search** **165/41;**
165/42, 104.21, 104.26, 104.33, 104.11, 104.19;
244/163, 158 R

See application file for complete search history.

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(Continued)

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Assistant Examiner—Nihir Patel

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(57) **ABSTRACT**

A system includes a heat transfer system and a priming
system coupled to the heat transfer system. The heat transfer
system includes a main evaporator having a core, a primary
wick, and a secondary wick, and a condenser coupled to the
main evaporator by a liquid line and a vapor line. A heat
transfer system loop is defined by the main evaporator, the
condenser, the liquid line, and the vapor line. The priming
system is configured to convert fluid into a liquid capable of
wetting the primary wick of the main evaporator. The
priming system includes a priming evaporator coupled to the
vapor line, and a reservoir in fluid communication with the
priming evaporator and coupled to the secondary wick of the
main evaporator by a secondary fluid line.

44 Claims, 10 Drawing Sheets

